



Legend

- Unit Break Points
- Undefined

Immobile Substrates

- 1 - Bedrock - CC 1-20 - VE
- 2 - Bedrock - CC 1-20 - E
- 3 - Bedrock/Boulder - CC 1-23, 32, 33 - SE
- 4 - Bedrock/Gravel - CC 1-23, 33 - SP
- 5 - Bedrock/Gravel - CC 1-23, 33 - PNP

Mobile/Partially Mobile Substrates

- 6 - Sand & Gravel - CC 24-26, 32 - SP
- 7 - Sand & Gravel - CC 24-26, 32 - VP/P
- 8 - Estuary or Sand/Mud - CC 27-31 - VP/P/SP
- 9 - Sediment - CC 21 - 30 - SE/E
- 10 - Bedrock or Sediment - CC 34 - VP/P/SP
- 11 - Bedrock or Sediment - CC 35 - VP/P/SP

Current Dominated

Tidal Lagoon

CC - Coastal Classification number

CC Type	Type
13	Rocky Beach, Wide
14	Rocky Beach, Narrow
15	Rocky Beach, Very Narrow
16	Rocky Beach, Very Narrow
17	Rocky Beach, Very Narrow
18	Rocky Beach, Very Narrow
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21	Rocky Beach, Very Narrow
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93	Rocky Beach, Very Narrow
94	Rocky Beach, Very Narrow
95	Rocky Beach, Very Narrow
96	Rocky Beach, Very Narrow
97	Rocky Beach, Very Narrow
98	Rocky Beach, Very Narrow
99	Rocky Beach, Very Narrow
100	Rocky Beach, Very Narrow

Shoreline Habitat

The Habitat Type provides a simplified picture of the "look" of the unit overall, based on the detailed biophysical attributes that have been mapped. The Habitat Type category is a summary of the units' biological and geomorphological features. Each Habitat Type has a definition that includes the typical substrate, wave exposure and biobands. For example, for the Semi-exposed, immobile substrate Habitat Type, part of the definition of that class is a certain combination of the most likely biobands and indicator species present at a bedrock shoreline with no mobile sediment present.

How is Habitat Type determined?
 Each Habitat Type has typical biological features (including both an indicator species list and typical associated biobands). To determine the Habitat Type, the biographer looks at the along-shore units as designated and described by the physical mapper, and:
 1. records the observations of the biobands in the unit and looks for indicator species,
 2. assigns a bio-wave exposure category,
 3. reviews the physical mapped information, and
 4. assigns the Habitat Type that best describes the unit.

The Habitat Type is based on the whole unit and is similar to the physical mappers use of the 'Coastal Class' category, in that the detailed across-shore data are summarized into one attribute. The simplified category describes the features of the whole unit.

Habitat Type is a summary of the biophysical classification of the whole shore unit, based on:
 • the biobands observed,
 • the wave exposure as indicated by the bands, and
 • the substrate types in the unit.

Legend Definitions
 CC - Coastal Classification number

Wave Exposure
 E - Exposed - Very high wave exposure, open ocean swells usually fetches >500km
 VE - Very Exposed - Extreme high wave exposure
 SE - Semi Exposed - High wave exposure, open shorelines, areas between fully exposed and more sheltered, usually fetches 50 to 500km
 P - Protected - Low wave exposure, sheltered inlets, usually fetches less than 10km
 SP - Semi Protected - Moderate wave exposure, partly sheltered, usually fetches 10-50km
 VP - Very Protected - Very low wave exposure, fetches < 1km, sheltered anchorages at heads of bays and inlets

Table MIDCOAST and NORTH COAST project area which includes BCO AREAS CC, JS and NC. The Species/wave exposure/substrate table for Habitat Classification (HAB_OBS), for the Mid-coast BC study area, from Johnston Strait/Central Coast Mapping Regions 5, 6 and 7.

SUBSTRATE STABILITY MAJOR SUBSTRATE COASTAL CLASSES EXPOSURE CODE (HAB_OBS)	IMMOBILE SUBSTRATES					MOBILE OR PARTIALLY MOBILE SUBSTRATES				CURRENT-DOMINATED BEDROCK OR SEDIMENT	TIDAL LAGOON BEDROCK OR SEDIMENT
	BEDROCK	BEDROCK/BOULDER	BEDROCK/GRAVEL	BEDROCK/GRAVEL	SAND & GRAVEL	SAND & GRAVEL	SAND/SED.	SEDIMENT	BEDROCK OR SEDIMENT		
1-20	1-23, 32, 33	SE	SE	SP	VP, F	24-30, 32 no SAL band	24-30, 31 has SAL band	24-30, 31 has SAL band	24-30, 31 has SAL band	34	35
2	3	4	5	6	7	8	9	10	11		
upper	<i>Ferrocarya</i>	<i>Ferrocarya</i> <i>Enteromorpha</i>	<i>Ferrocarya</i> <i>Enteromorpha</i>	<i>Ferrocarya</i> <i>Enteromorpha</i>	<i>Ferrocarya</i> <i>Enteromorpha</i>	<i>Ferrocarya</i> <i>Enteromorpha</i>	<i>Ferrocarya</i> <i>Enteromorpha</i>	greenes & fishes <i>Sargassum</i> <i>Ulva</i>	no visible macrobenthos due to sediment mobility	tidal current dominated; may be a Protected wave exposure but shows an overhang of indicator species from higher wave exposures. A number of associated current dominated of the site.	<i>Balanus glandula</i> <i>Fucus distichus</i>
middle	<i>Patella pinnatifida</i> <i>Mytilus californianus</i> <i>Semibalanus cariosus</i>	<i>Mytilus californianus</i> <i>Semibalanus cariosus</i>	<i>Mytilus californianus</i> <i>Semibalanus cariosus</i>	<i>Mytilus prolifera</i> <i>Ulva</i> <i>Ulvaria</i> spp.	<i>Mytilus prolifera</i> <i>Ulva</i> <i>Ulvaria</i> spp.	<i>Semibalanus cariosus</i> <i>Ulva</i> <i>Ulvaria</i> spp.	<i>Semibalanus cariosus</i> <i>Ulva</i> <i>Ulvaria</i> spp.	<i>Mytilus prolifera</i> <i>Ulva</i> <i>Ulvaria</i>			<i>Balanus glandula</i> <i>Fucus distichus</i>
lower	<i>Laminaria littoralis</i>	<i>Hydrophyllum scaberr</i>	<i>Laminaria glandulosa</i> <i>Laminaria saccharina</i> <i>Alaria marginata</i> <i>Lithothamnion</i>	<i>Laminaria saccharina</i>	<i>Laminaria glandulosa</i> <i>Laminaria saccharina</i> <i>Alaria marginata</i> <i>Lithothamnion</i>	<i>Laminaria glandulosa</i> <i>Laminaria saccharina</i> <i>Alaria marginata</i> <i>Lithothamnion</i>	<i>Laminaria saccharina</i>				poorly water in lagoons creates narrow intertidal and a reduced wave energy. A number of associated current dominated of the site.
intertidal	<i>Nereocystis luetkeana</i>	<i>Nereocystis luetkeana</i> <i>Macrocystis integrifolia</i> <i>Agaveus</i> spp. <i>Strongylocentrotus</i> <i>Fructicosus</i>	<i>Nereocystis luetkeana</i> <i>Macrocystis integrifolia</i> <i>Agaveus</i> spp. <i>Strongylocentrotus</i> <i>Fructicosus</i>	<i>Macrocystis integrifolia</i> <i>Agaveus</i> spp.	<i>Nereocystis luetkeana</i> <i>Macrocystis integrifolia</i> <i>Agaveus</i> spp.	<i>Macrocystis integrifolia</i> <i>Agaveus</i> spp.	<i>Macrocystis integrifolia</i> <i>Agaveus</i> spp.	<i>Zostera marina</i>	<i>Zostera marina</i>	<i>Zostera marina</i>	

